



California Hazardous Materials and Oil Emergency Function **(EF-10)**

Introduction

The California Hazardous Materials and Oil Emergency Function (EF-10) is an annex to the State of California Emergency Plan (SEP), and provides for a coordinated response from state agencies and governmental entities. These organizations are given jurisdictional and regulatory authority to conduct all phases of emergency management to the response and recovery from a release of hazardous materials or oil in a disaster or large scale incident.

The scope of EF-10 includes the appropriate actions to prepare for, respond to, and recover from threats to public health and safety, property or the environment, caused by actual or potential oil and hazardous materials incidents. Appropriate actions may include but are not limited to:

- Minimizing or containing a release
- Detecting and assessing the extent of a release of contamination (including sampling and analysis and environmental monitoring)
- Stabilizing the release and preventing the spread of contamination or the threat to the public, property and the environment
- Analyzing options for environmental cleanup and waste disposition
- Implementing environmental cleanup, including waste characterization, the storage, treatment and disposal of oil and hazardous materials
- Setting or recommending evacuation, re-entry, clearance, and remediation levels
- Removing drums, barrels, tanks, or other bulk storage containers that contain hazardous materials or oil

Primary Agencies Roles and Responsibilities

The California Environmental Protection Agency (Cal/EPA) serves as the lead agency for coordinating oil and hazardous materials response actions. Cal/EPA is responsible for facilitating the maintenance and implementation of EF-10 with input and assistance from all Cal/EPA Boards, Departments and Offices. Primary Agencies have jurisdictional authority and capabilities to prepare respond, mitigate and recover from oil and hazardous materials emergencies. The Primary Agency's role is dependant upon whether the incident affects the inland or coastal zone, on state streets, highways or state owned buildings.

<u>Primary Agency</u>	<u>Responsibilities</u>
Cal/EPA	Lead Agency, maintains close coordination between Cal EMA and the primary and support agencies. Provides damage reports, assessments, and situation reports to EF #5- Emergency Management.
Air Resource Board (ARB)	ARB provides essential monitoring, assessment, and distribution of incident-specific air quality information to protect public health from acute unanticipated releases of airborne contaminants.
Department of Toxic Substances Control (DTSC)	DTSC can provide emergency response staff as well as contractors to oversee and mitigate releases of hazardous materials. Provide or facilitate access to technical information regarding the safe handling or suitable disposal of hazardous materials.
Office of Environmental Health Hazard Assessment (OEHHA)	OEHHA provides essential toxicological risk assessment for exposures to hazardous material releases and oil spills. OEHHA can assist responders in assessing exposure scenarios for decisions on sheltering-in-place, evacuation and reentry, and provide the IC with human health effects information. OEHHA also provides health-based recommendations on fishery closures during oil spills.
State Water Resources Control Board (SWRCB)	The Regional Boards can provide emergency response staff and resources, including sampling and analytical services, to respond to releases of petroleum and hazardous materials that will impact water quality. SWRCB can also provide technical expertise and regulatory authority regarding impacts and cleanup of hazardous materials released to waters of the state, including providing critical information on water uses in areas that might be affected.



Supporting Agencies

Supporting Agencies are those who can provide technical, policy, and subject matter expertise, and are generally requested by the primary agency during an incident. Supporting Agencies may also have jurisdictional oversight role for the incident. The following State Agencies have responsibilities to support an incident under EF-10, and in the coordination of all phases of emergency management:

- California Conservation Corps (CCC)
- California Energy Commission (CEC)
- Department of Food and Agriculture (CDFA)
- Department of Forestry and Fire Protection (CDF)
- Department of Parks and Recreation (DPR)
- State Lands Commission (SLC)
- Military Department, California National Guard (CNG)
- State and Consumer Services Agency

The Table attached in Appendix A indicates resources that are available from Agencies under EF-10 for use in emergency response activities.

Activating EF-10

It is anticipated that EF-10 will activate when emergency incidents significantly impact or involve multiple agencies, mutual aid regions, a wide geographic area, multiple population centers, or multiple human and environmental targets. The activation of EF-10 reflects a potential or significant incident with regional or statewide impact requiring resources from multiple agencies.

Incidents such as major heat wave, large scale wildfire, major rail or transit catastrophe, or localized flooding could require increased resources to address hazardous materials and oil. Once EF-10 is activated, the appropriate primary and secondary agencies will be notified by the lead agency.

Examples of EF-10 Activation:

- Multi agency response/effort addressing a catastrophic release or threatened release of hazardous materials or oil.
- Incident(s) expected to last for an extended period of time or that may significantly affect multi agency resources.

EF-10 activation may occur in several ways: through self-activation by the Lead Agency (Cal/EPA), notification and request for assistance by CalEMA, a request for assistance by an impacted agency, or when a chief executive (ex. Governor, Agency Administrator, etc) requests EF-10 resources. In all cases, EF-10 activation will follow the principles of SEMS and ICS.

Demobilization or deactivation of personnel and equipment resources would occur once the situation has stabilized and can be coordinated and addressed by the local or regional authorities. Demobilization events can be characterized by the following examples:

- When the need for response and recovery is reduced and resource coordination among primary and secondary agencies is no longer necessary
- Ongoing recovery efforts can be handled at an appropriate level within an agency's normal authorities and workload.

Multi-Agency Coordination Groups

Within the Emergency Function system, an incident specific Multi-Agency Coordination Group (MAC-G) will be formed to provide support to local emergency response actions for large scale disasters. This is accomplished through planning, communications, situation monitoring, need projection, and expediting resource orders between the various agencies.

A MAC-G will normally be activated when the character, intensity, and technical needs of the emergency situation significantly impacts or involves other agencies. A MAC-G represents the agencies with jurisdictional responsibility, or which are heavily supporting the effort, or are being significantly impacted by the shortage of local resources at the Local/Region level which are involved with incidents or support. The MAC-G representatives or their designees will have their agency administrator authority to:

- Assist and advise on prioritizing incidents
- Establish resource allocation priorities
- Commit to allocating resources and/or expenditure emergency funds

Incident specific MAC Groups will be formed dependent upon the specificity of the event. The following are examples of the types of MAC-Gs to be formed under EF-10:

- Animal and contaminated food disposal (EF-11 is lead)
- Earthquakes
- Industrial or petrochemical facility incidents
- Floods
- Hazardous material or oil spills (marine, pipeline, AST, drill rig)
- Radiological Incidents
- Urban and wildland fires

Supporting Plans, Procedures and Documents to the California Hazardous Materials & Oil Emergency Function Annex

<u>Plan/ Document Name</u>	<u>Description</u>	<u>Document Repository</u>
Cal/EPA's Facility Emergency Preparedness Plan	Provide guidance for protection of lives, preserve organizational structure, and ensure continuity or early resumption of essential services.	Cal/EPA Building Property Management Office 1001 "I" Street Sacramento, CA 95814
California State Oil Spill Contingency Plan (CCSOSCP) Wildlife Response Plan	Addresses oil spill contingency planning for both marine and inland surface waterways and terrestrial environments.	http://www.nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=16612 http://www.dfg.ca.gov/ospr/fed region 9.aspx
Wildfire Smoke - A Guide for Public	Details smoke composition, potential health effects and advice on protective measures	http://www.oehha.ca.gov/air/riskassess/wildfire8.pdf
Safe Clean-up of Fire Ash	How to safely clean-up and remove ash following fires	http://calepa.ca.gov/Disaster/Fire2003/FireAsh.pdf
Toxicity Criteria Database	Great resource to access toxicity data and risk assessment documents for hundreds of chemicals	http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
Toxics Directory- Hazardous Materials	Incident response resources and hazardous materials information or management	http://www.oehha.ca.gov/publicinfo/Tdhazmat.html
HB 7741- Emergency Incident Management Handbook	CalFire Policy regarding roles, responsibilities, and procedures for Hazardous Materials Response	CalFire Intranet: http://cdfweb/Pubs/Issuance/7700/7741.pdf Contact: CalFire Sacramento Emergency Command Center (916) 845-8680

Appendix A- EF-10 Resource Matrix

	DTSC	DFG OSPR	DPR	ARB	SWCRB	Cal Recycle	CHP	Cal Trans	DGS	CA NG	OEHHA	Cal Fire
Logistics Support												
Tactical Comm Sys		X					X	X		X		X
Satellite-Cell Comm		X		X						X		
Mass Notification System												X
ARC/GIS Mapping		X				X		X		X	X	X
GPS Survey Equipment		X						X				
HAZMAT Contractor	X	X		-	X				X			
Mobile Air Lab				X								
Analytical Lab	X	X		X	X	X						
Air Sampling/Analysis			X	X								
HAZCAT Kits	X									X		X
Spill Control Equipment	X	X										
Contract Hauler	X											
Heavy Equipment Contract	X					X		X	X			X
40-Ton End Dump	X							X				
Dump Trucks (5	X							X		x		



&10 CY)												
Forklift	X						X		x			
Dozer	X						X		X		X	
Loaders	X						X		X			
Excavator	X						X		X			
Backhoe	X	X					X		X			
Air Monitoring	X	X	X	X					X			
Field Instrument (CGI/PID/FID)	X	X		X			X				X	
XRF	X											
PPE	X	X	X	X					X		X	
Spill Kit	X	X					X					
Booms	X	X					X					
Absorbent	X	X					X					
Secondary Containment	X	X										
Exclusion Zone Equipment	X	X							X		X	
Decontamination Equipment	X	X	X						X		X	
UAV/UAS (FMV)						X			X			
Fixed Wing Surveillance		X				X			X		X	
Rotary Wing Surveillance									X		X	
Modeling/Forecas ting				X								
Meterology				X								



EF-10 Support Matrix	STATE AGENCY										
	DTSC	DFG OSPR	DPR	ARB	CHP	Cal Trans	CA NG	RWQCB	OEHHA	DOGGR	CPUC
Technical Expertise											
Aircraft Crash	X										
Oil Ship Tanker Spill/Fire/Exp (CA Ports)	X	X							X		
Drill Rig Spill/Fire/Exp	X	X	X							X	
Oil Refinery Spill/Fire/Exp	X	X									
Chemical Plant Fire/Exp	X			X							
Natural Gas Utility Fire/Exp		X						X			
Fuel Line Fire/Exp	X	X									
Chlorine Tank Release			X	X							
Fuel Tank Farm Release		X									
Petroleum Refinery Fire		X		X							
Natural Gas Line Explosion											
Railcar Crash - Pesticides	X		X								X
Railcar Crash - Fuel		X									X
Railcar Crash - Chlorine			X	X							X
Railcar Crash - Mil UXO											X
Big Rig Crash - Flammable	X										
Big Rig Crash - Oil		X									
Big Rig Crash - Pesticides	X										
Big Rig Crash - Mil UXO											
Big Rig Crash - Chlorine				X							
Water Quality Analysis	X	X						X			
Mobile Laboratory Analysis	X			X				X			
Personal Protective Equipment	X	X				X					
Wildfire/ Smoke/ Ash Exposure	X			X							
Pesticide Drift / Exposure	X		X						X		



Health Assessment/ Toxicology	X	X	X	X					X		
Certified Hazardous Materials Technicians/Specialist	X										
Personnel Resources											
Incident Commander		X			X						
Operations Chief	X	X	X		X						
Logistics Chief	X	X	X		X						
Administration Officer	X	X	X		X						
Mass Notification	X	X									
Incident Characterization & Assessment	X	X	X				X				X
Public Affairs	X	X	X				X				
Crew Chief (40 Hr HAZWOPER)	X	X					X				
Equipment Operator (40 Hr HAZWOPER)	X	X									
Risk Assessment / Hazard Analysis	X			X					X		X
Environmental Sampling/Assessment	X										